

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/US2004/009153A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07F/18 C08G77/388

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07F C08G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/035765 A (DOW CORNING ; KENNAN JOHN (US); JOHNSON BETHANY (US); LIN FEIFEI (US)) 1 May 2003 (2003-05-01) claim 1; example 2	8, 15
A	EP 1 116 813 A (DOW CORNING) 18 July 2001 (2001-07-18) Examples	1-7, 10-14
A	US 6 482 969 B1 (HELMRICK LIZA RUTH ET AL) 19 November 2002 (2002-11-19) cited in the application Examples	1-7, 10-14
A	US 5 302 659 A (BINDL JOHANN ET AL) 12 April 1994 (1994-04-12) the whole document	1-8, 10-15
	----- -/-- -----	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

18 October 2004

Date of mailing of the international search report

26/10/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Fritz, M

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/US2004/009153

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>EP 0 490 402 A (UNION CARBIDE CHEM PLASTIC) 17 June 1992 (1992-06-17) the whole document</p>	<p>1-8, 10-15</p>

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 9,16

As a new process for its preparation does not render an already known compound novel and elastomeric silanes or siloxanes having quaternary ammonium groups are a class of compounds which has been extensively described in the art, claims 9 and 16 also comprise a large number of known compounds.

By consequence the initial phase of the search revealed a very large number of documents relevant to the issue of novelty. So many documents were retrieved that it is impossible to determine which parts of the claims 9 and 16 may be said to define subject-matter for which protection might legitimately be sought (Article 6 PCT). For these reasons, the search has been restricted to claims 1-8 and 10-15.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No.
PCT/US2004/009153

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 03035765	A	01-05-2003	US	6607717 B1	19-08-2003
			EP	1440124 A1	28-07-2004
			WO	03035765 A1	01-05-2003
EP 1116813	A	18-07-2001	EP	1116813 A1	18-07-2001
			JP	2001226878 A	21-08-2001
US 6482969	B1	19-11-2002	BR	0213623 A	14-09-2004
			EP	1440113 A1	28-07-2004
			WO	03035721 A1	01-05-2003
US 5302659	A	12-04-1994	DE	4211269 A1	07-10-1993
			DE	59300058 D1	23-02-1995
			EP	0563962 A1	06-10-1993
			JP	2513979 B2	10-07-1996
			JP	6025419 A	01-02-1994
			KR	9708594 B1	27-05-1997
EP 0490402	A	17-06-1992	US	5039738 A	13-08-1991
			AT	129264 T	15-11-1995
			CA	2058049 C	26-07-1994
			DE	69113963 D1	23-11-1995
			DE	69113963 T2	21-03-1996
			EP	0490402 A2	17-06-1992
			JP	2515455 B2	10-07-1996
			JP	4314734 A	05-11-1992

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/US2004/009153

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 9, 16
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.